<i>Acceived by OCD</i> . 5/22/202	<i>3</i> 0.37.33 AM			I uge I oj
	UNITED STATES DEPARTMENT OF THE INTERIOR		Ex	FORM APPROVED DMB No. 1004-0137 pires: October 31, 2021
E	BUREAU OF LAND MANAGEMENT		5. Lease Serial No.	NMNM00090
Do not use t	RY NOTICES AND REPORTS ON V his form for proposals to drill or to ell. Use Form 3160-3 (APD) for su	o re-enter an	6. If Indian, Allottee	or Tribe Name
SUBMI	T IN TRIPLICATE - Other instructions on pag	ge 2	7. If Unit of CA/Agre	eement, Name and/or No.
1. Type of Well	_	8 Well Name and No	<u></u>	
	Gas Well Other			^{9.} AMAZING 19 FED/581H
2. Name of Operator EOG RESC			9. API Well No. 30-0	25-50474
3a. Address 1111 BAGBY SKY	7 LOBBY 2, HOUSTON, TX 77(3b. Phone No. (713) 651-70			Exploratory Area 23219D; WOLFCAMP
4. Location of Well <i>(Footage, Sec</i> SEC 19/T22S/R32E/NMP	., T.,R.,M., or Survey Description)		11. Country or Parish LEA/NM	, State
12.	CHECK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE	OF NOTICE, REPORT OR OT	HER DATA
TYPE OF SUBMISSION		TYP	E OF ACTION	
✓ Notice of Intent	Acidize Deep	pen raulic Fracturing	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity
Subsequent Report		Construction	Recomplete	✓ Other
Final Abandonment Notice		and Abandon Back	Temporarily Abandon Water Disposal	
completion of the involved of completed. Final Abandonme is ready for final inspection.)	rk will be perfonned or provide the Bond No. on is berations. If the operation results in a multiple cor nt Notices must be filed only after all requirement ts an amendment to our approved APD for th	npletion or recomple ts, including reclama	etion in a new interval, a Form 3	3160-4 must be filed once testing has been
Amazing 19 Fed 740H (F	'KA 581H) API #: 30-025-50474			
Change name from Ama:	zing 19 Fed 581H to Amazing 19 Fed 740H.			
-	S, R-32-E, Sec 19, 431' FNL, 1269' FEL, Lea 9, 861' FNL, 2069' FEL, Lea Co., N.M.	Co., NM,		
-	S, R-32-E, Sec 30, 100' FSL, 825' FEL, Lea C	Co., NM,		
	0, 100' FSL, 1980' FEL, Lea Co., N.M.			
Continued on page 3 add	ing is true and correct. Name (<i>Printed/Typed</i>)			
STAR HARRELL / Ph: (432) 8		Specialist		
Signature		Date	04/19/2	2023
	THE SPACE FOR FED	ERAL OR STA	ATE OFICE USE	
Approved by				
CHRISTOPHER WALLS / Ph	: (575) 234-2234 / Approved	Title Petrol	eum Engineer	05/19/2023 Date
	attached. Approval of this notice does not warrar al or equitable title to those rights in the subject le to conduct operations thereon.		RLSBAD	

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

Change target formation to Wolfcamp U4.

Update casing and cement program to current design.

Update the Pool as reflected in the C-102.

Location of Well

0. SHL: TR A / 431 FNL / 1269 FEL / TWSP: 22S / RANGE: 32E / SECTION: 19 / LAT: 32.383118 / LONG: -103.70945 (TVD: 0 feet, MD: 0 feet) PPP: TR A / 100 FNL / 825 FEL / TWSP: 22S / RANGE: 32E / SECTION: 19 / LAT: 32.384036 / LONG: -103.708012 (TVD: 10702 feet, MD: 10729 feet) BHL: TR P / 100 FSL / 825 FEL / TWSP: 22S / RANGE: 32E / SECTION: 19 / LAT: 32.35555 / LONG: -103.707981 (TVD: 10967 feet, MD: 21192 feet)

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-0161 Fax: (575) 393-0720 DISTRICT II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone: (505) 334-0178 Fax: (505) 334-0170 DISTRICT IV 1220 S. St. Francis Dr., Stanta Fe, NM 87505 Phone: (505) 476-3400 Fax: (505) 476-3420

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

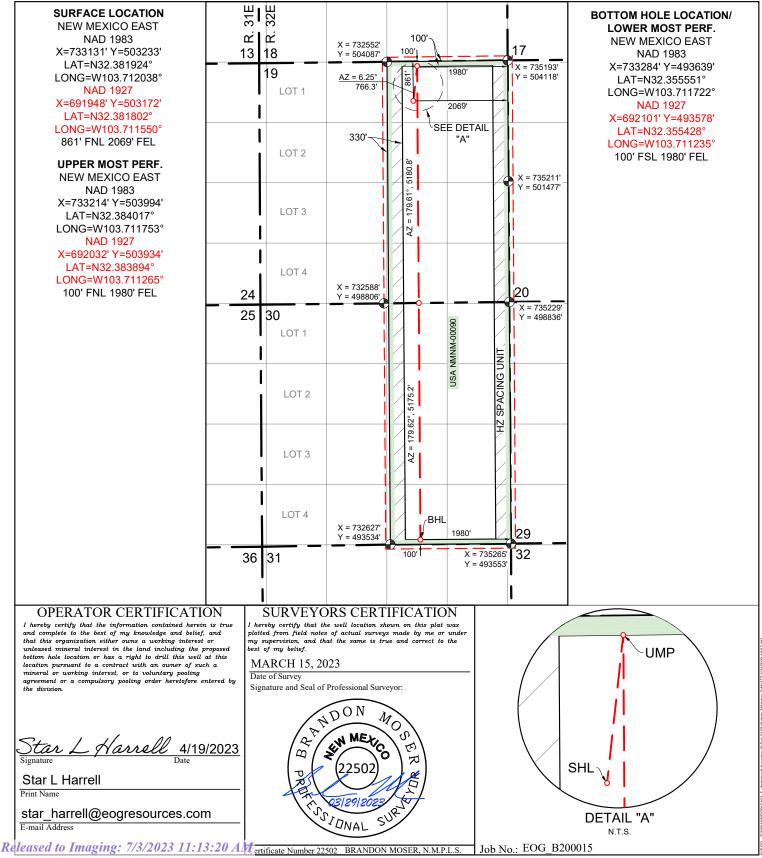
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

A	PI Number			Pool Code	e			Pool Name		
30-025-50	474			98296		WC-025 G-09 S223219D; Wolfcamp				
Property Co	ode		Property Name Well Number							ıber
33311	5				AMAZI	NG 19 F	ED		740H	l
OGRID N	0.				Oper	rator Name			Elevatio	on
7377					EOG RESC	DURCE	S, INC.		3636	6'
Surface Location										
UL or lot no.	Section	Township	Range	Lot Id	n Feet fro	om the	North/South line	Feet from the	East/West line	County
В	19	22 S	32 E		86	61	NORTH	2069	EAST	LEA
			Bott	om Ho	le Location	If Diffe	rent From Surfac	e		
UL or lot no.	Section	Township	Range	Lot Id	n Feet fro	om the	North/South line	Feet from the	East/West line	County
0	30	22 S	32 E		100 SOUTH 1980 EAST LEA					LEA
Dedicated Acres	Joint or	Infill	Consolidated Co	de	Order No.					
640					PENDING COM AGREEMENT					

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



Seog resources

Amazing 19 Fed 740H

Revised Permit Information 03/09/2023:

Well Name: Amazing 19 Fed 740H

Location: SHL: 861' FNL & 2069' FEL, Section 19, T-22-S, R-32-E, Lea Co., N.M. BHL: 100' FSL & 1980' FEL, Section 30, T-22-S, R-32-E, Lea Co., N.M.

Casing Program:

Hole	Interv	al MD	Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
12-1/4"	0	920	0	920	9-5/8"	36#	J-55	LTC
8-3/4"	0	10,971	0	10,910	7-5/8"	29.7#	HCP-110	FXL
6-3/4"	0	10,471	0	10,410	5-1/2"	20#	P110-EC	DWC/C IS MS
6-3/4"	10,471	10,971	10,410	10,910	5-1/2"	20#	P110-EC	Vam Sprint SF
6-3/4"	10,971	22,472	10,910	12,213	5-1/2"	20#	P110-EC	DWC/C IS MS

Variance is requested to waive the centralizer requirements for the 7-5/8" casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4 hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive any centralizer requirements for the 5-1/2" casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive the annular clearance requirements for the 5-1/2" casing by 7-5/8" casing annulus to the proposed top of cement.

EOG requests permission to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions:

- Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings.
- Annular clearance less than 0.422" is acceptable for the production open hole section.

		Wt.	Yld	Slurry Description
Depth	No. Sacks	ppg	Ft3/sk	Siurry Description
920'	270	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-
9-5/8''				Flake (TOC @ Surface)
	80	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium
				Metasilicate (TOC @ 720')
10,910'	470	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3%
7-5/8''				Microbond (TOC @ 6,900')
	1180	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-
				M + 6% Bentonite Gel (TOC @ surface)
22,472'	1030	13.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond
5-1/2''				(TOC @ 10,410')

Cementing Program:



Amazing 19 Fed 740H						
Additive	Purpose					
Bentonite Gel	Lightweight/Lost circulation prevention					
Calcium Chloride	Accelerator					
Cello-flake	Lost circulation prevention					
Sodium Metasilicate	Accelerator					
MagOx	Expansive agent					
Pre-Mag-M	Expansive agent					
Sodium Chloride	Accelerator					
FL-62	Fluid loss control					
Halad-344	Fluid loss control					
Halad-9	Fluid loss control					
HR-601	Retarder					
Microbond	Expansive Agent					

EOG requests variance from minimum standards to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (7,096') and the second stage performed as a 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 180 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Top will be verified by Echo-meter.

EOG will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

8			1	
Measured Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0 – 920'	Fresh - Gel	8.6-8.8	28-34	N/c
920' - 10,910'	Brine	10.0-10.2	28-34	N/c
10,910' - 11,794'	Oil Base	8.7-9.4	58-68	N/c - 6
11,794' – 22,472'	Oil Base	10.0-14.0	50 60	4 - 6
Lateral	Oli Base	10.0-14.0	58-68	4 - 0

Mud Program:



Wellhead & Offline Cementing:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 21 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"

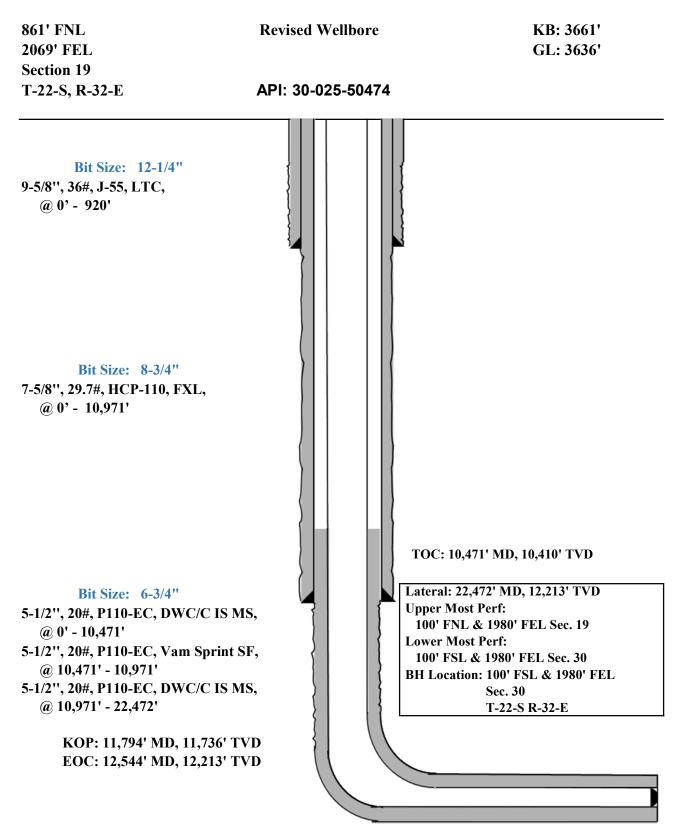


TUBING REQUIREMENTS

EOG respectively requests an exception to the following NMOCD rule:

 19.15.16.10 Casing AND TUBING RQUIREMENTS: J (3): "The operator shall set tubing as near the bottom as practical and tubing perforations shall not be more than 250 feet above top of pay zone."

With horizontal flowing and gas lifted wells an end of tubing depth placed at or slightly above KOP is a conservative way to ensure the tubing stays clean from debris, plugging, and allows for fewer well interventions post offset completion. The deeper the tubulars are run into the curve, the higher the probability is that the tubing will become stuck in sand and or well debris as the well produces over time. An additional consideration for EOT placement during artificial lift installations is avoiding the high dog leg severity and inclinations found in the curve section of the wellbore to help improve reliability and performance. Dog leg severity and inclinations tend not to hamper gas lifted or flowing wells, but they do effect other forms of artificial lift like rod pump or ESP (electric submersible pump). Keeping the EOT above KOP is an industry best practice for those respective forms of artificial lift.





Design B 4. CASING PROGRAM

Hole	Interval MD		Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
13"	0	920	0	920	10-3/4"	40.5#	J-55	STC
9-7/8"	0	10,971	0	10,910	8-3/4"	38.5#	P110-EC	SLIJ II NA
7-7/8"	0	22,472	0	12,213	6"	22.3#	P110-EC	DWC/C IS

Variance is requested to waive the centralizer requirements for the 8-3/4" casing in the 9-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 9-7/8" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive any centralizer requirements for the 6" casing in the 7-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 7-7/8" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive the annular clearance requirements for the 6" casing by 8-3/4" casing annulus to the proposed top of cement.

EOG requests permission to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions:

- Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings.
- Annular clearance less than 0.422" is acceptable for the production open hole section.

		Wt.	Yld	Slurry Description
Depth	No. Sacks	ppg	Ft3/sk	Sturry Description
920'	250	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk
10-3/4"				Cello-Flake (TOC @ Surface)
	70	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2%
				Sodium Metasilicate (TOC @ 720')
10,910'	540	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3%
8-3/4"				Microbond (TOC @ 6,900')
	1340	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-
				M + 6% Bentonite Gel (TOC @ surface)
22,472'	1680	13.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond
6"				(TOC @ 10,410')

<u>Cementing Program</u>:



EOG requests variance from minimum standards to pump a two stage cement job on the 8-3/4" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (7,096') and the second stage performed as a 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 338 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Top will be verified by Echo-meter.

EOG will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

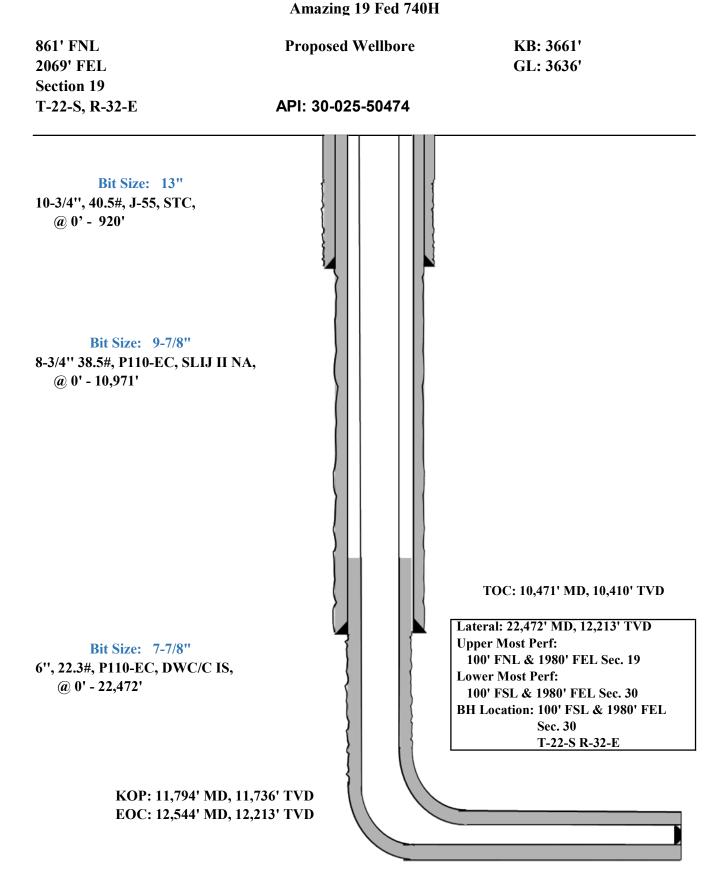
EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

Wellhead & Offline Cementing:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 21 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"







Midland

Lea County, NM (NAD 83 NME) Amazing 19 Fed #740H

OH

Plan: Plan #0.2

Standard Planning Report

18 April, 2023



1 0.0	22,472.1	Plan #0.2 (OH))	EOG MWD+IFR1 MWD + IFR1			
Plan Survey Tool Pr Depth From (usft)	Depth To (usft)	Date 4/18/2 Survey (Wellb	ore)	Tool Name	Rema	arks	
			0.0	0.0	0.0	17	79.09
Vertical Section:			rom (TVD) ısft)	+N/-S (usft)	+E/-W (usft)		ection (°)
Version:			Phase:	PLAN	Tie On Dep	th:	0.0
Audit Notes:							
Design	Plan #0.2						
	IGF	RF2020	7/22/2020	.,	6.73	60.05	47,665.53898394
Magnetics	Model Na	me	Sample Date	Declination (°)		Dip Angle (°)	Field Strength (nT)
Wellbore	ОН						
Grid Convergence:		0.33 °	Weinieud Ele	vation.	Gon	Ground Level.	0,000.0 40
Position Uncertainty	+E/-W	0.0 usft 0.0 usft	Easting: Wellhead Ele		3,131.00 usft usft	Longitude: Ground Level:	103° 42' 43.333 V 3,636.0 usi
Well Position	+N/-S	0.0 usft	Northing:		3,233.00 usft	Latitude:	32° 22' 54.932 N
Well	#740H						
From: Position Uncertainty	Map :	0.0 usft	Easting: Slot Radius:	734,151.00 13-3/10	-	ide:	103° 42' 31.400 W
Site Position:			Northing:	503,794.00	Eutituu		32° 23' 0.425 N
Site	Amazing 19 F	ed					
Geo Datum: Map Zone:	New Mexico Ea						
Map System:	US State Plane North American			System Datum:		Mean Sea Level	
Project	Lea County, N	IM (NAD 83 NM	1E)				
Wellbore: Design:	OH Plan #0.2						
Well:	#740H			Survey Calcula	ion Method:	Minimum Curvat	ture
Project: Site:	Lea County, Amazing 19 I	NM (NAD 83 N ⁼ ed	ME)	MD Reference: North Referenc	e :	kb = 25' @ 3678 Grid	3.0usft
Company:	PEDM Midland			TVD Reference	te Reference:	Well #740H kb = 25' @ 3678	3.0usft



Database:	PEDM	Local Co-ordinate Reference:	Well #740H
Company:	Midland	TVD Reference:	kb = 25' @ 3678.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 25' @ 3678.0usft
Site:	Amazing 19 Fed	North Reference:	Grid
Well:	#740H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.2		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,623.7	8.47	5.84	1,622.2	31.1	3.2	2.00	2.00	0.00	5.84	
6,731.1	8.47	5.84	6,673.8	779.9	79.8	0.00	0.00	0.00	0.00	
7,154.9	0.00	0.00	7,096.0	811.0	83.0	2.00	-2.00	0.00	180.00	
11,794.4	0.00	0.00	11,735.5	811.0	83.0	0.00	0.00	0.00	0.00	KOP(Amazing 19 Fe
12,014.8	26.46	180.00	11,948.2	761.0	83.0	12.00	12.00	81.65	180.00	FTP(Amazing 19 Fee
12,544.3	90.00	179.61	12,212.9	333.5	85.0	12.00	12.00	-0.07	-0.44	
22,472.1	90.00	179.61	12,213.0	-9,594.0	153.0	0.00	0.00	0.00	0.00	PBHL(Amazing 19 F

Released to Imaging: 7/3/2023 11:13:20 AM



Database:	PEDM	Local Co-ordinate Reference:	Well #740H
Company:	Midland	TVD Reference:	kb = 25' @ 3678.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 25' @ 3678.0usft
Site:	Amazing 19 Fed	North Reference:	Grid
Well:	#740H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	2.00	5.84	1,300.0	1.7	0.2	-1.7	2.00	2.00	0.00
1,400.0	4.00	5.84	1,399.8	6.9	0.7	-6.9	2.00	2.00	0.00
1,500.0	6.00	5.84	1,499.5	15.6	1.6	-15.6	2.00	2.00	0.00
1,600.0	8.00	5.84	1,598.7	27.7	2.8	-27.7	2.00	2.00	0.00
1,623.7	8.47	5.84	1,622.2	31.1	3.2	-31.1	2.00	2.00	0.00
1,700.0	8.47	5.84	1,697.6	42.3	4.3	-42.2	0.00	0.00	0.00
1,800.0	8.47	5.84	1,796.5	57.0	5.8	-56.9	0.00	0.00	0.00
1,900.0	8.47	5.84	1,895.4	71.6	7.3	-71.5	0.00	0.00	0.00
2,000.0	8.47	5.84	1,994.3	86.3	8.8	-86.1	0.00	0.00	0.00
2,100.0	8.47	5.84	2,093.3	100.9	10.3	-100.8	0.00	0.00	0.00
2,200.0	8.47	5.84	2,192.2	115.6	11.8	-115.4	0.00	0.00	0.00
2,300.0	8.47	5.84	2,291.1	130.3	13.3	-130.0	0.00	0.00	0.00
2,400.0	8.47	5.84	2,390.0	144.9	14.8	-144.7	0.00	0.00	0.00
2,500.0	8.47	5.84	2,488.9	159.6	16.3	-159.3	0.00	0.00	0.00
2,600.0	8.47	5.84	2,587.8	174.2	17.8	-173.9	0.00	0.00	0.00
2,700.0	8.47	5.84	2,686.7	188.9	19.3	-188.6	0.00	0.00	0.00
2,800.0	8.47	5.84	2,785.6	203.6	20.8	-203.2	0.00	0.00	0.00
	8.47	5.84	2,884.5	218.2	22.3	-217.8	0.00	0.00	0.00
2,900.0	8.47	5.84 5.84	2,884.5 2,983.4		22.3	-217.8 -232.5		0.00	0.00
3,000.0			2,983.4 3,082.3	232.9 247.5		-232.5 -247.1	0.00 0.00		
3,100.0	8.47	5.84	3,082.3 3,181.2	247.5	25.3	-247.1	0.00	0.00	0.00 0.00
3,200.0 3,300.0	8.47 8.47	5.84 5.84	3,181.2	202.2	26.8 28.3	-201.7	0.00	0.00 0.00	0.00
3,400.0	8.47	5.84	3,379.1	291.5	29.8	-291.0	0.00	0.00	0.00
3,500.0	8.47	5.84	3,478.0	306.2	31.3	-305.6	0.00	0.00	0.00
3,600.0	8.47	5.84	3,576.9	320.8	32.8	-320.3	0.00	0.00	0.00
3,700.0	8.47	5.84	3,675.8	335.5	34.3	-334.9	0.00	0.00	0.00
3,800.0	8.47	5.84	3,774.7	350.2	35.8	-349.6	0.00	0.00	0.00
3,900.0	8.47	5.84	3,873.6	364.8	37.3	-364.2	0.00	0.00	0.00
4,000.0	8.47	5.84	3,972.5	379.5	38.8	-378.8	0.00	0.00	0.00
4,100.0	8.47	5.84	4,071.4	394.1	40.3	-393.5	0.00	0.00	0.00
4,200.0	8.47	5.84	4,170.3	408.8	41.8	-408.1	0.00	0.00	0.00
4,300.0	8.47	5.84	4,269.2	423.5	43.3	-422.7	0.00	0.00	0.00
4,400.0	8.47	5.84	4,368.1	438.1	44.8	-437.4	0.00	0.00	0.00
4,500.0	8.47	5.84	4,467.1	452.8	46.3	-452.0	0.00	0.00	0.00
4,600.0	8.47	5.84	4,566.0	467.5	47.8	-466.6	0.00	0.00	0.00
4,700.0	8.47	5.84	4,664.9	482.1	49.3	-481.3	0.00	0.00	0.00
4,800.0	8.47	5.84	4,763.8	496.8	50.8	-495.9	0.00	0.00	0.00
4,900.0	8.47	5.84	4,862.7	511.4	52.3	-510.5	0.00	0.00	0.00
5,000.0	8.47	5.84	4,961.6	526.1	53.8	-525.2	0.00	0.00	0.00
5,100.0	8.47	5.84	5,060.5	540.8	55.3	-539.8	0.00	0.00	0.00
5,200.0	8.47	5.84	5,159.4	555.4	56.8	-554.4	0.00	0.00	0.00
5,200.0	0.47	5.04	5,155.4	555.4	50.0	-334.4	0.00	0.00	0.00

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Database:	PEDM	Local Co-ordinate Reference:	Well #740H
Company:	Midland	TVD Reference:	kb = 25' @ 3678.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 25' @ 3678.0usft
Site:	Amazing 19 Fed	North Reference:	Grid
Well:	#740H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
			. ,	. ,		. ,	. ,	. ,	· /
5,300.0	8.47	5.84	5,258.3	570.1	58.3	-569.1	0.00	0.00	0.00
5,400.0	8.47	5.84	5,357.2	584.7	59.8	-583.7	0.00	0.00	0.00
5,500.0	8.47	5.84	5,456.1	599.4	61.3	-598.3	0.00	0.00	0.00
5,600.0	8.47	5.84	5,555.0	614.1	62.8	-613.0	0.00	0.00	0.00
5,700.0	8.47	5.84	5,653.9	628.7	64.3	-627.6	0.00	0.00	0.00
5,800.0	8.47	5.84	5,752.9	643.4	65.8	-642.2	0.00	0.00	0.00
5,900.0	8.47	5.84	5,851.8	658.0	67.3	-656.9	0.00	0.00	0.00
6,000.0	8.47	5.84	5,950.7	672.7	68.8	-671.5	0.00	0.00	0.00
6,100.0	8.47	5.84	6,049.6	687.4	70.3	-686.1	0.00	0.00	0.00
6,200.0	8.47	5.84	6,148.5	702.0	71.8	-700.8	0.00	0.00	0.00
6,300.0	8.47	5.84	6,247.4	716.7	73.3	-715.4	0.00	0.00	0.00
6,400.0	8.47	5.84	6,346.3	731.3	74.8	-730.1	0.00	0.00	0.00
6,500.0	8.47	5.84	6,445.2	746.0	76.3	-744.7	0.00	0.00	0.00
6,600.0	8.47	5.84	6,544.1	760.7	77.8	-759.3	0.00	0.00	0.00
6,700.0	8.47	5.84	6,643.0	775.3	79.3	-774.0	0.00	0.00	0.00
6,731.1	8.47	5.84	6,673.8	779.9	79.8	-778.5	0.00	0.00	0.00
6,800.0	7.10	5.84	6,742.1	789.2	80.8	-787.8	2.00	-2.00	0.00
6,900.0	5.10	5.84	6,841.5	799.7	81.8	-798.3	2.00	-2.00	0.00
7,000.0	3.10	5.84	6,941.2	806.8	82.6	-805.4	2.00	-2.00	0.00
7,100.0	1.10	5.84	7,041.2	810.5	82.9	-809.1	2.00	-2.00	0.00
7,154.9	0.00	0.00	7,096.0	811.0	83.0	-809.6	2.00	-2.00	0.00
7,200.0	0.00	0.00	7,141.1	811.0	83.0	-809.6	0.00	0.00	0.00
7,300.0	0.00	0.00	7,241.1	811.0	83.0	-809.6	0.00	0.00	0.00
7,400.0	0.00	0.00	7,341.1	811.0	83.0	-809.6	0.00	0.00	0.00
7,500.0	0.00	0.00	7,441.1	811.0	83.0	-809.6	0.00	0.00	0.00
7,600.0	0.00	0.00	7,541.1	811.0	83.0	-809.6	0.00	0.00	0.00
7,700.0	0.00	0.00	7,641.1	811.0	83.0	-809.6	0.00	0.00	0.00
7,800.0	0.00	0.00	7,741.1	811.0	83.0	-809.6	0.00	0.00	0.00
7,900.0	0.00	0.00	7,841.1	811.0	83.0	-809.6	0.00	0.00	0.00
8,000.0	0.00	0.00	7,941.1	811.0	83.0	-809.6	0.00	0.00	0.00
8,100.0	0.00	0.00	8,041.1	811.0	83.0	-809.6	0.00	0.00	0.00
8,200.0	0.00	0.00	8,141.1	811.0	83.0	-809.6	0.00	0.00	0.00
8,300.0	0.00	0.00	8,241.1	811.0	83.0	-809.6	0.00	0.00	0.00
8,400.0	0.00	0.00	8,341.1	811.0	83.0	-809.6	0.00	0.00	0.00
8,500.0	0.00	0.00	8,441.1	811.0	83.0	-809.6	0.00	0.00	0.00
8,600.0	0.00	0.00	8,541.1	811.0	83.0	-809.6	0.00	0.00	0.00
8,700.0	0.00	0.00	8,641.1	811.0	83.0	-809.6	0.00	0.00	0.00
8,800.0	0.00	0.00	8,741.1	811.0	83.0	-809.6	0.00	0.00	0.00
8,900.0	0.00	0.00	8,841.1	811.0	83.0	-809.6	0.00	0.00	0.00
9,000.0	0.00	0.00	8,941.1	811.0	83.0	-809.6	0.00	0.00	0.00
9,100.0	0.00	0.00	9,041.1	811.0	83.0	-809.6	0.00	0.00	0.00
9,200.0	0.00	0.00	9,141.1	811.0	83.0	-809.6	0.00	0.00	0.00
9,300.0	0.00	0.00	9,241.1	811.0	83.0	-809.6	0.00	0.00	0.00
9,400.0	0.00	0.00	9,341.1	811.0	83.0	-809.6	0.00	0.00	0.00
9,500.0	0.00	0.00	9,441.1	811.0	83.0	-809.6	0.00	0.00	0.00
9,600.0	0.00	0.00	9,541.1	811.0	83.0	-809.6	0.00	0.00	0.00
9,700.0	0.00	0.00	9,641.1	811.0	83.0	-809.6	0.00	0.00	0.00
9,800.0	0.00	0.00	9,741.1	811.0	83.0	-809.6	0.00	0.00	0.00
9,900.0	0.00	0.00	9,841.1	811.0	83.0	-809.6	0.00	0.00	0.00
10,000.0	0.00	0.00	9,941.1	811.0	83.0	-809.6	0.00	0.00	0.00
10,100.0	0.00	0.00	10,041.1	811.0	83.0	-809.6	0.00	0.00	0.00
10,200.0	0.00	0.00	10,141.1	811.0	83.0	-809.6	0.00	0.00	0.00
10,200.0	0.00	0.00	10,141.1	811.0	83.0	-809.6	0.00	0.00	0.00
10,300.0	0.00	0.00	10,341.1	811.0	83.0	-809.6	0.00	0.00	0.00

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COMPASS 5000.16 Build 100



Database:	PEDM	Local Co-ordinate Reference:	Well #740H
Company:	Midland	TVD Reference:	kb = 25' @ 3678.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 25' @ 3678.0usft
Site:	Amazing 19 Fed	North Reference:	Grid
Well:	#740H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.0	0.00	0.00	10,441.1	811.0	83.0	-809.6	0.00	0.00	0.00
10,600.0	0.00	0.00	10,541.1	811.0	83.0	-809.6	0.00	0.00	0.00
10,700.0	0.00	0.00	10,641.1	811.0	83.0	-809.6	0.00	0.00	0.00
10,800.0	0.00	0.00	10,741.1	811.0	83.0	-809.6	0.00	0.00	0.00
10,900.0	0.00	0.00	10,841.1	811.0	83.0	-809.6	0.00	0.00	0.00
11,000.0	0.00	0.00	10,941.1	811.0	83.0	-809.6	0.00	0.00	0.00
11,100.0	0.00	0.00	11,041.1	811.0	83.0	-809.6	0.00	0.00	0.00
11,200.0	0.00	0.00	11,141.1	811.0	83.0	-809.6	0.00	0.00	0.00
11,300.0	0.00	0.00	11,241.1	811.0	83.0	-809.6	0.00	0.00	0.00
11,400.0	0.00	0.00	11,341.1	811.0	83.0	-809.6	0.00	0.00	0.00
11,500.0	0.00	0.00	11,441.1	811.0	83.0	-809.6	0.00	0.00	0.00
11,600.0	0.00	0.00	11,541.1	811.0	83.0	-809.6	0.00	0.00	0.00
11,000.0	0.00	0.00	11,341.1	011.0	05.0	-009.0		0.00	
11,700.0	0.00	0.00	11,641.1	811.0	83.0	-809.6	0.00	0.00	0.00
11,794.4	0.00	0.00	11,735.5	811.0	83.0	-809.6	0.00	0.00	0.00
11,800.0	0.68	180.00	11,741.1	811.0	83.0	-809.5	12.00	12.00	0.00
11,825.0	3.68	180.00	11,766.1	810.0	83.0	-808.6	12.00	12.00	0.00
11,850.0	6.68	180.00	11,791.0	807.8	83.0	-806.3	12.00	12.00	0.00
11,875.0	9.68	180.00	11,815.8	804.2	83.0	-802.8	12.00	12.00	0.00
11,900.0	12.68	180.00	11,840.3	799.4	83.0	-797.9	12.00	12.00	0.00
11,925.0	15.68	180.00	11,864.5	793.2	83.0	-791.8	12.00	12.00	0.00
11,950.0	18.68	180.00	11,888.4	785.9	83.0	-784.4	12.00	12.00	0.00
11,975.0	21.68	180.00	11,911.9	777.2	83.0	-775.8	12.00	12.00	0.00
12,000.0	24.68	180.00	11,934.8	767.4	83.0	-766.0	12.00	12.00	0.00
12,000.0	24.00	180.00	11,948.2	761.0	83.0	-759.6	12.00	12.00	0.00
				756.4		-759.0	12.00		
12,025.0	27.68	179.98	11,957.3		83.0			12.00	-0.20
12,050.0	30.68	179.94	11,979.1	744.2	83.0	-742.8	12.00	12.00	-0.17
12,075.0	33.68	179.90	12,000.3	730.9	83.0	-729.4	12.00	12.00	-0.14
12,100.0	36.68	179.87	12,020.7	716.5	83.1	-715.0	12.00	12.00	-0.12
12,125.0	39.68	179.84	12,040.3	701.0	83.1	-699.6	12.00	12.00	-0.11
12,150.0	42.68	179.82	12,059.2	684.5	83.1	-683.1	12.00	12.00	-0.09
12,175.0	45.68	179.80	12,077.1	667.1	83.2	-665.7	12.00	12.00	-0.08
12,200.0	48.68	179.78	12,094.1	648.8	83.3	-647.4	12.00	12.00	-0.08
12,225.0	51.68	179.76	12,110.1	629.6	83.3	-628.2	12.00	12.00	-0.07
12,250.0	54.68	179.75	12,125.1	609.6	83.4	-608.2	12.00	12.00	-0.06
12,275.0	57.68	179.73	12,139.0	588.8	83.5	-587.4	12.00	12.00	-0.06
12,300.0	60.68	179.72	12,151.8	567.3	83.6	-565.9	12.00	12.00	-0.06
12,325.0	63.68	179.70	12,163.4	545.2	83.7	-543.8	12.00	12.00	-0.05
12,350.0	66.68	179.69	12,173.9	522.6	83.9	-521.1	12.00	12.00	-0.05
12,350.0	69.68	179.69	12,173.9	522.6 499.3	83.9 84.0	-521.1 -497.9	12.00	12.00	-0.05 -0.05
12,400.0	72.68	179.67	12,191.3	475.7	84.1	-474.3	12.00	12.00	-0.05
12,425.0	75.68	179.66	12,198.1	451.6	84.3	-450.2	12.00	12.00	-0.04
12,450.0	78.68	179.65	12,203.7	427.3	84.4	-425.9	12.00	12.00	-0.04
12,475.0	81.68	179.64	12,207.9	402.6	84.6	-401.2	12.00	12.00	-0.04
12,500.0	84.68	179.63	12,210.9	377.8	84.7	-376.4	12.00	12.00	-0.04
12,525.0	87.68	179.62	12,212.6	352.9	84.9	-351.5	12.00	12.00	-0.04
12,544.3	90.00	179.61	12,212.9	333.5	85.0	-332.1	12.00	12.00	-0.04
12,600.0	90.00	179.61	12,212.9	277.9	85.4	-276.5	0.00	0.00	0.00
12,700.0	90.00	179.61	12,212.9	177.9	86.1	-176.5	0.00	0.00	0.00
12,800.0	90.00	179.61	12,212.9	77.9	86.8	-76.5	0.00	0.00	0.00
12,900.0	90.00	179.61	12,212.9	-22.1	87.5	23.5	0.00	0.00	0.00
13,000.0	90.00	179.61	12,212.9	-122.1	88.1	123.5	0.00	0.00	0.00
13,100.0	90.00	179.61	12,212.9	-222.1	88.8	223.5	0.00	0.00	0.00
13,200.0	90.00	179.61	12,212.9	-322.1	89.5	323.5	0.00	0.00	0.00
13,300.0	90.00	179.61	12,212.9	-422.1	90.2	423.5	0.00	0.00	0.00

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COMPASS 5000.16 Build 100

.



Database:	PEDM	Local Co-ordinate Reference:	Well #740H
Company:	Midland	TVD Reference:	kb = 25' @ 3678.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 25' @ 3678.0usft
Site:	Amazing 19 Fed	North Reference:	Grid
Well:	#740H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,400.0	90.00	179.61	12,212.9	-522.1	90.9	523.5	0.00	0.00	0.00
13,500.0	90.00	179.61	12,213.0	-622.1	91.6	623.5	0.00	0.00	0.00
13,600.0	90.00	179.61	12,213.0	-722.1	92.3	723.5	0.00	0.00	0.00
13,700.0	90.00	179.61	12,213.0	-822.1	92.9	823.5	0.00	0.00	0.00
13,800.0	90.00	179.61	12,213.0	-922.1	93.6	923.5	0.00	0.00	0.00
13,900.0	90.00	179.61	12,213.0	-1,022.1	94.3	1,023.5	0.00	0.00	0.00
14,000.0	90.00	179.61	12,213.0	-1,122.1	95.0	1,123.5	0.00	0.00	0.00
14,100.0	90.00	179.61	12,213.0	-1,222.1	95.7	1,223.5	0.00	0.00	0.00
14,200.0	90.00	179.61	12,213.0	-1,322.1	96.4	1,323.5	0.00	0.00	0.00
14,300.0	90.00	179.61	12,213.0	-1,422.1	97.0	1,423.4	0.00	0.00	0.00
14,400.0	90.00	179.61	12,213.0	-1,522.1	97.7	1,523.4	0.00	0.00	0.00
14,500.0	90.00	179.61	12,213.0	-1,622.1	98.4	1,623.4	0.00	0.00	0.00
14,600.0	90.00	179.61	12,213.0	-1,722.1	99.1	1,723.4	0.00	0.00	0.00
14,700.0	90.00	179.61	12,213.0	-1,822.1	99.8	1,823.4	0.00	0.00	0.00
14,800.0	90.00	179.61	12,213.0	-1,922.1	100.5	1,923.4	0.00	0.00	0.00
14,900.0	90.00	179.61	12,213.0	-2,022.1	101.2	2,023.4	0.00	0.00	0.00
15,000.0	90.00	179.61	12,213.0	-2,122.1	101.8	2,123.4	0.00	0.00	0.00
15,100.0	90.00	179.61	12,213.0	-2,222.1	102.5	2,223.4	0.00	0.00	0.00
15,200.0	90.00	179.61	12,213.0	-2,322.1	103.2	2,323.4	0.00	0.00	0.00
15,300.0	90.00	179.61	12,213.0	-2,422.1	103.9	2,423.4	0.00	0.00	0.00
15,400.0	90.00	179.61	12,213.0	-2,522.1	104.6	2,523.4	0.00	0.00	0.00
15,500.0	90.00	179.61	12,213.0	-2,622.1	105.3	2,623.4	0.00	0.00	0.00
15,600.0	90.00	179.61	12,213.0	-2,722.1	105.9	2,723.4	0.00	0.00	0.00
15,700.0	90.00	179.61	12,213.0	-2,822.1	106.6	2,823.4	0.00	0.00	0.00
15,800.0	90.00	179.61	12,213.0	-2,922.0	107.3	2,923.4	0.00	0.00	0.00
15,900.0	90.00	179.61	12,213.0	-3,022.0	108.0	3,023.4	0.00	0.00	0.00
16,000.0	90.00	179.61	12,213.0	-3,122.0	108.7	3,123.4	0.00	0.00	0.00
16,100.0	90.00	179.61	12,213.0	-3,222.0	109.4	3,223.4	0.00	0.00	0.00
16,200.0	90.00	179.61	12,213.0	-3,322.0	110.1	3,323.4	0.00	0.00	0.00
16,300.0	90.00	179.61	12,213.0	-3,422.0	110.7	3,423.4	0.00	0.00	0.00
16,400.0	90.00	179.61	12,213.0	-3,522.0	111.4	3,523.4	0.00	0.00	0.00
16,500.0	90.00	179.61	12,213.0	-3,622.0	112.1	3,623.4	0.00	0.00	0.00
16,600.0	90.00	179.61	12,213.0	-3,722.0	112.8	3,723.4	0.00	0.00	0.00
16,700.0	90.00	179.61	12,213.0	-3,822.0	113.5	3,823.4	0.00	0.00	0.00
16,800.0	90.00	179.61	12,213.0	-3,922.0	114.2	3,923.3	0.00	0.00	0.00
16,900.0	90.00	179.61	12,213.0	-4,022.0	114.8	4,023.3	0.00	0.00	0.00
17,000.0	90.00	179.61	12,213.0	-4,122.0	115.5	4,123.3	0.00	0.00	0.00
17,100.0	90.00	179.61	12,213.0	-4,222.0	116.2	4,223.3	0.00	0.00	0.00
17,200.0	90.00	179.61	12,213.0	-4,322.0	116.9	4,323.3	0.00	0.00	0.00
17,300.0	90.00	179.61	12,213.0	-4,422.0	117.6	4,423.3	0.00	0.00	0.00
17,400.0	90.00	179.61	12,213.0	-4,522.0	118.3	4,523.3	0.00	0.00	0.00
17,500.0	90.00	179.61	12,213.0	-4,622.0	119.0	4,623.3	0.00	0.00	0.00
17,600.0	90.00	179.61	12,213.0	-4,722.0	119.6	4,723.3	0.00	0.00	0.00
17,700.0	90.00	179.61	12,213.0	-4,822.0	120.3	4,823.3	0.00	0.00	0.00
17,800.0	90.00	179.61	12,213.0	-4,922.0	121.0	4,923.3	0.00	0.00	0.00
17,900.0	90.00	179.61	12,213.0	-5,022.0	121.7	5,023.3	0.00	0.00	0.00
18,000.0	90.00	179.61	12,213.0	-5,122.0	122.4	5,123.3	0.00	0.00	0.00
18,100.0	90.00	179.61	12,213.0	-5,222.0	123.1	5,223.3	0.00	0.00	0.00
18,200.0	90.00	179.61	12,213.0	-5,322.0	123.7	5,323.3	0.00	0.00	0.00
18,300.0	90.00	179.61	12,213.0	-5,422.0	124.4	5,423.3	0.00	0.00	0.00
18,400.0	90.00	179.61	12,213.0	-5,522.0	125.1	5,523.3	0.00	0.00	0.00
18,500.0	90.00	179.61	12,213.0	-5,622.0	125.8	5,623.3	0.00	0.00	0.00
18,600.0	90.00	179.61	12,213.0	-5,722.0	126.5	5,723.3	0.00	0.00	0.00
	90.00	179.61	12,213.0	-5,822.0	127.2	5,823.3			

4/18/2023 2:16:38PM

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Database:	PEDM	Local Co-ordinate Reference:	Well #740H
Company:	Midland	TVD Reference:	kb = 25' @ 3678.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 25' @ 3678.0usft
Site:	Amazing 19 Fed	North Reference:	Grid
Well:	#740H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Planned Survey

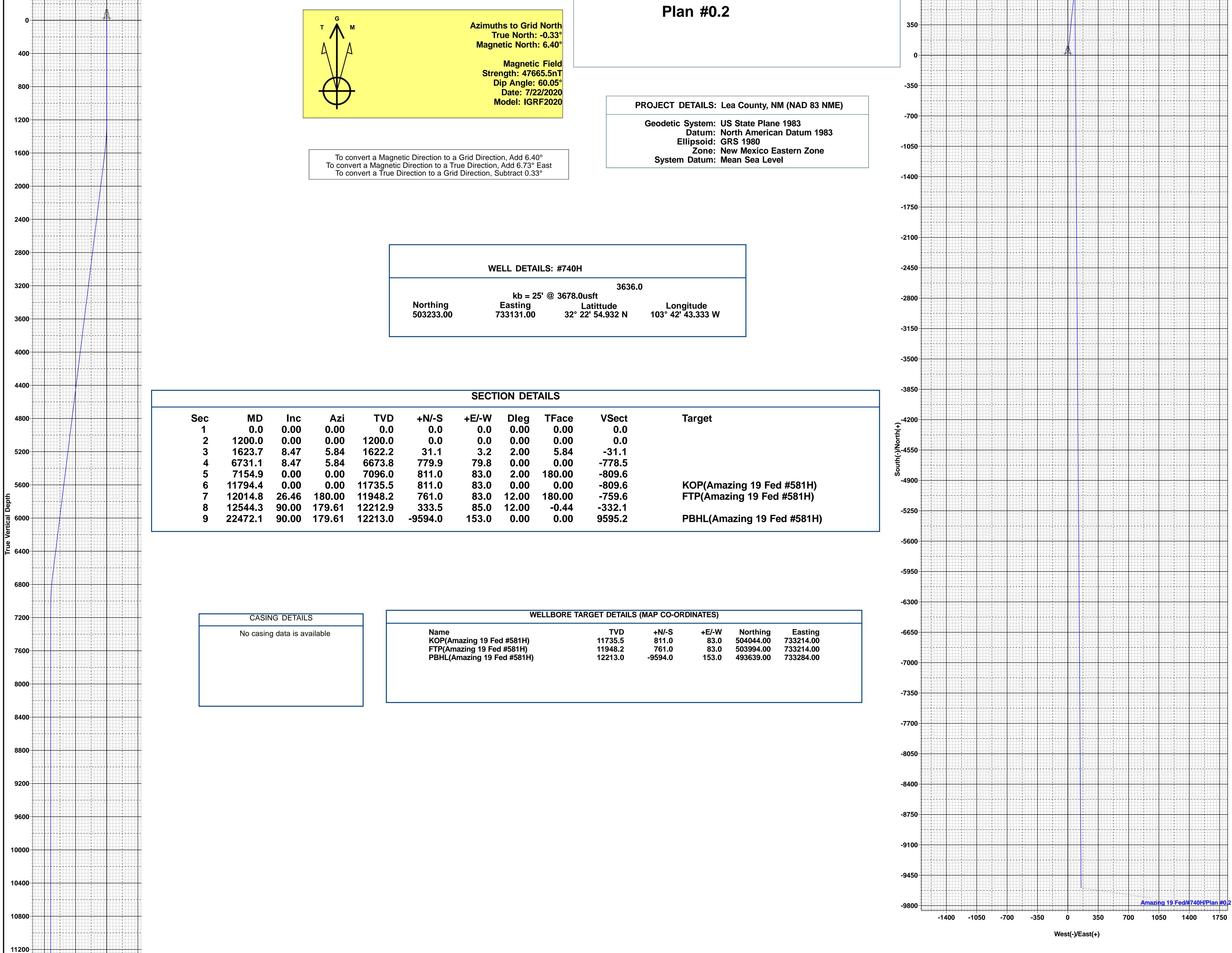
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
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18,900.0	90.00	179.61	12,213.0	-6,022.0	128.5	6,023.3	0.00	0.00	0.00
19,000.0	90.00	179.61	12,213.0	-6,122.0	129.2	6,123.3	0.00	0.00	0.00
19,100.0	90.00	179.61	12,213.0	-6,222.0	129.9	6,223.3	0.00	0.00	0.00
19,200.0	90.00	179.61	12,213.0	-6,322.0	130.6	6,323.2	0.00	0.00	0.00
19,300.0	90.00	179.61	12,213.0	-6,422.0	131.3	6,423.2	0.00	0.00	0.00
19,400.0	90.00	179.61	12,213.0	-6,522.0	132.0	6,523.2	0.00	0.00	0.00
19,500.0	90.00	179.61	12,213.0	-6,622.0	132.7	6,623.2	0.00	0.00	0.00
19,600.0	90.00	179.61	12,213.0	-6,722.0	133.3	6,723.2	0.00	0.00	0.00
19,700.0	90.00	179.61	12,213.0	-6,822.0	134.0	6,823.2	0.00	0.00	0.00
19,800.0	90.00	179.61	12,213.0	-6,922.0	134.7	6,923.2	0.00	0.00	0.00
19,900.0	90.00	179.61	12,213.0	-7,022.0	135.4	7,023.2	0.00	0.00	0.00
20,000.0	90.00	179.61	12,213.0	-7,121.9	136.1	7,123.2	0.00	0.00	0.00
20,100.0	90.00	179.61	12,213.0	-7,221.9	136.8	7,223.2	0.00	0.00	0.00
20,200.0	90.00	179.61	12,213.0	-7,321.9	137.4	7,323.2	0.00	0.00	0.00
20,300.0	90.00	179.61	12,213.0	-7,421.9	138.1	7,423.2	0.00	0.00	0.00
20,400.0	90.00	179.61	12,213.0	-7,521.9	138.8	7,523.2	0.00	0.00	0.00
20,500.0	90.00	179.61	12,213.0	-7,621.9	139.5	7,623.2	0.00	0.00	0.00
20,600.0	90.00	179.61	12,213.0	-7,721.9	140.2	7,723.2	0.00	0.00	0.00
20,700.0	90.00	179.61	12,213.0	-7,821.9	140.9	7,823.2	0.00	0.00	0.00
20,800.0	90.00	179.61	12,213.0	-7,921.9	141.6	7,923.2	0.00	0.00	0.00
20,900.0	90.00	179.61	12,213.0	-8,021.9	142.2	8,023.2	0.00	0.00	0.00
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21,100.0	90.00	179.61	12,213.0	-8,221.9	143.6	8,223.2	0.00	0.00	0.00
21,200.0	90.00	179.61	12,213.0	-8,321.9	144.3	8,323.2	0.00	0.00	0.00
21,300.0	90.00	179.61	12,213.0	-8,421.9	145.0	8,423.2	0.00	0.00	0.00
21,400.0	90.00	179.61	12,213.0	-8,521.9	145.7	8,523.2	0.00	0.00	0.00
21,500.0	90.00	179.61	12,213.0	-8,621.9	146.3	8,623.2	0.00	0.00	0.00
21,600.0	90.00	179.61	12,213.0	-8,721.9	147.0	8,723.1	0.00	0.00	0.00
21,700.0	90.00	179.61	12,213.0	-8,821.9	147.7	8,823.1	0.00	0.00	0.00
21,800.0	90.00	179.61	12,213.0	-8,921.9	148.4	8,923.1	0.00	0.00	0.00
21,900.0	90.00	179.61	12,213.0	-9,021.9	149.1	9,023.1	0.00	0.00	0.00
22,000.0	90.00	179.61	12,213.0	-9,121.9	149.8	9,123.1	0.00	0.00	0.00
22,100.0	90.00	179.61	12,213.0	-9,221.9	150.5	9,223.1	0.00	0.00	0.00
22,200.0	90.00	179.61	12,213.0	-9,321.9	151.1	9,323.1	0.00	0.00	0.00
22,300.0	90.00	179.61	12,213.0	-9,421.9	151.8	9,423.1	0.00	0.00	0.00
22,400.0	90.00	179.61	12,213.0	-9,521.9	152.5	9,523.1	0.00	0.00	0.00
22,472.1	90.00	179.61	12,213.0	-9,594.0	153.0	9,595.2	0.00	0.00	0.00



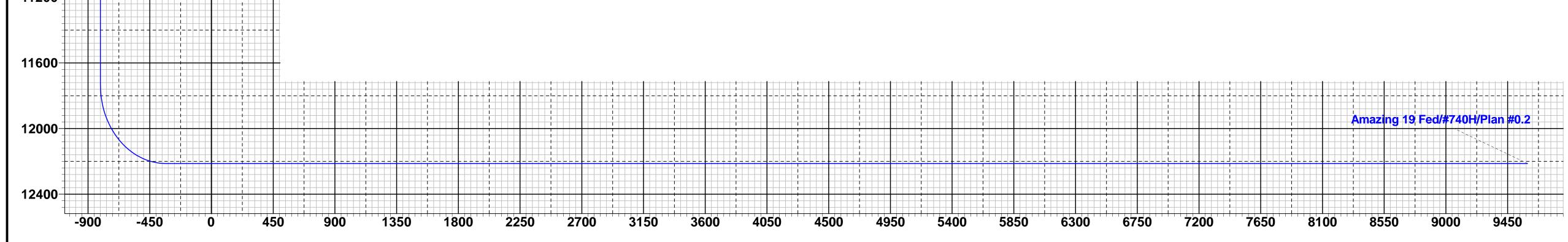
Database: Company: Project: Site: Well: Wellbore: Design:	Midland Lea County, NM (NAD 83 NME) Amazing 19 Fed #740H				TVD Referen MD Referen North Refer	ce:	kb = 25' kb = 25' Grid	Well #740H kb = 25' @ 3678.0usft kb = 25' @ 3678.0usft Grid Minimum Curvature		
Design Targets Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
KOP(Amazing 19 Fed # - plan hits target ce - Point FTP(Amazing 19 Fed #	nter	0.00	11,735.5	811.0 761.0	83.0 83.0	504,044.00 503,994.00	733,214.00	32° 23' 2.952 N 32° 23' 2.458 N	103° 42' 42.310 W 103° 42' 42.313 W	
 plan hits target ce Point PBHL(Amazing 19 Fed plan hits target ce Point 	nter ‡ 0.00	0.01	12,213.0	-9,594.0	153.0	493,639.00	733,284.00	32° 21' 19.988 N	103° 42' 42.198 W	

Released to Imaging: 7/3/2023 11:13:20 AM

leogresources



Lea County, NM (NAD 83 NME) West(-)/East(+) 350 -1400 700 1050 1050-Amazing 19 Fed #740H --+ - - - - -- - - -700-



Vertical Section at 179.09°

Lea County, NM (NAD 83 NME) Amazing 19 Fed #740H ОН Plan #0.2 14:15, April 18 2023

1400

1750

Seog resources Offline Intermediate Cementing Procedure

Cement Program

1. No changes to the cement program will take place for offline cementing.

Summarized Operational Procedure for Intermediate Casing

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment back pressure valves.
 - a. Float equipment is equipped with two back pressure valves rated to a minimum of 5,000 psi.
- 2. Land production casing on mandrel hanger through BOP.
 - a. If casing is unable to be landed with a mandrel hanger, then the **casing will be cemented online**.
- 3. Break circulation and confirm no restrictions.
 - a. Ensure no blockage of float equipment and appropriate annular returns.
 - b. Perform flow check to confirm well is static.
- 4. Set pack-off
 - a. If utilizing a fluted/ported mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid, remove landing joint, and set annular packoff through BOP. Pressure test to 5,000 psi for 10 min.
 - b. If utilizing a solid mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid. Pressure test seals to 5,000 psi for 10 min. Remove landing joint through BOP.
- 5. After confirmation of both annular barriers and the two casing barriers, install TA plug and pressure test to 5,000 psi for 10 min. Notify the BLM with intent to proceed with nipple down and offline cementing.
 - a. Minimum 4 hrs notice.
- 6. With the well secured and BLM notified, nipple down BOP and secure on hydraulic carrier or cradle.
 - a. Note, if any of the barriers fail to test, the BOP stack will not be nippled down until after the cement job has concluded and both lead and tail slurry have reached 500 psi.
- 7. Skid/Walk rig off current well.
- 8. Confirm well is static before removing TA Plug.
 - a. Cementing operations will not proceed until well is under control. (If well is not static, notify BLM and proceed to kill)
 - b. Casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing.
 - c. Well control plan can be seen in Section B, Well Control Procedures.
 - d. If need be, rig can be moved back over well and BOP nippled back up for any further remediation.

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Seog resources

Offline Intermediate Cementing Procedure

- e. Diagram for rig positioning relative to offline cementing can be seen in Figure 4.
- 9. Rig up return lines to take returns from wellhead to pits and rig choke.
 - a. Test all connections and lines from wellhead to choke manifold to 5,000 psi high for 10 min.
 - b. If either test fails, perform corrections and retest before proceeding.
 - c. Return line schematics can be seen in Figure 3.
- 10. Remove TA Plug from the casing.
- 11. Install offline cement tool.
 - a. Current offline cement tool schematics can be seen in Figure 1 (Cameron) and Figure 2 (Cactus).
- 12. Rig up cement head and cementing lines.
 - a. Pressure test cement lines against cement head to 80% of casing burst for 10 min.
- 13. Break circulation on well to confirm no restrictions.
 - a. If gas is present on circulation, well will be shut in and returns rerouted through gas buster.
 - b. Max anticipated time before circulating with cement truck is 6 hrs.
- 14. Pump cement job as per plan.
 - a. At plug bump, test casing to 0.22 psi/ft or 1500 psi, whichever is greater.
 - b. If plug does not bump on calculated, shut down and wait 8 hrs or 500 psi compressive strength, whichever is greater before testing casing.
- 15. Confirm well is static and floats are holding after cement job.
 - a. With floats holding and backside static:
 - i. Remove cement head.
 - b. If floats are leaking:
 - i. Shut-in well and WOC (Wait on Cement) until tail slurry reaches 500 psi compressive strength and the casing is static prior to removing cement head.
 - c. If there is flow on the backside:
 - i. Shut in well and WOC until tail slurry reaches 500 psi compressive strength. Ensure that the casing is static prior to removing cement head.
- 16. Remove offline cement tool.
- 17. Install night cap with pressure gauge for monitoring.
- 18. Test night cap to 5,000 psi for 10 min.

Example Well Control Plan Content

A. Well Control Component Table

The table below, which covers the cementing of the <u>5M MASP (Maximum Allowable Surface Pressure) portion of the well</u>, outlines the well control component rating in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the BOP nippled up to the wellhead.

Intermediate hole section, 5M requirement

Component	RWP
Pack-off	10M
Casing Wellhead Valves	10M
Annular Wellhead Valves	5M
TA Plug	10M
Float Valves	5M
2" 1502 Lo-Torque Valves	15M

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while circulating and cementing through the Offline Cement Adapter.

General Procedure While Circulating

- 1. Sound alarm (alert crew).
- 2. Shut down pumps.
- 3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 4. Confirm shut-in.
- 5. Notify tool pusher/company representative.

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Seog resources

Offline Intermediate Cementing Procedure

- 6. Read and record the following:
 - a. SICP (Shut in Casing Pressure) and AP (Annular Pressure)
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan to continue circulating out kick via rig choke and mud/gas separator. Circulate and adjust mud density as needed to control well.

General Procedure While Cementing

- 1. Sound alarm (alert crew).
- 2. Shut down pumps.
- 3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 4. Confirm shut-in.
- 5. Notify tool pusher/company representative.
- 6. Open rig choke and begin pumping again taking returns through choke manifold and mud/gas separator.
- 7. Continue to place cement until plug bumps.
- 8. At plug bump close rig choke and cement head.
- 9. Read and record the following
 - a. SICP and AP
 - b. Pit gain
 - c. Time
 - d. Shut-in annulus valves on wellhead

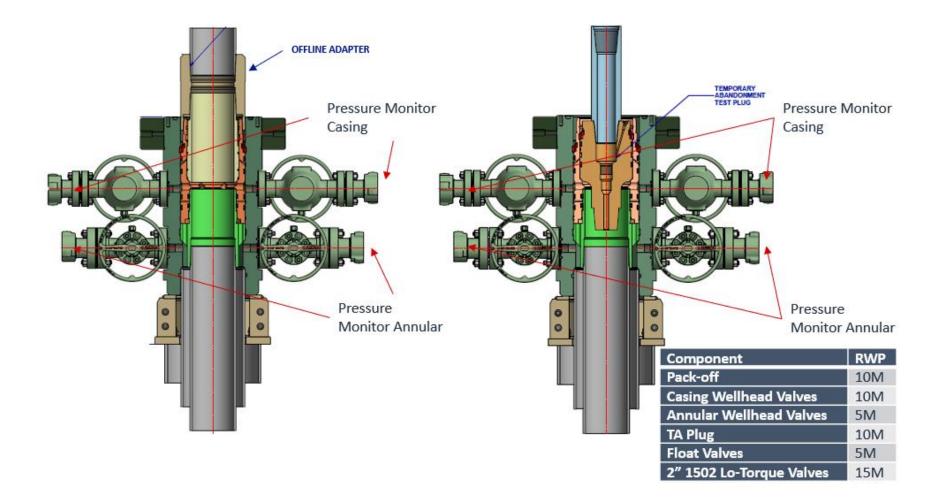
General Procedure After Cementing

- 1. Sound alarm (alert crew).
- 2. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 3. Confirm shut-in.
- 4. Notify tool pusher/company representative.
- 5. Read and record the following:
 - a. SICP and AP
 - b. Pit gain
 - c. Time
 - d. Shut-in annulus valves on wellhead

Page | 4

Seog resources Offline Intermediate Cementing Procedure

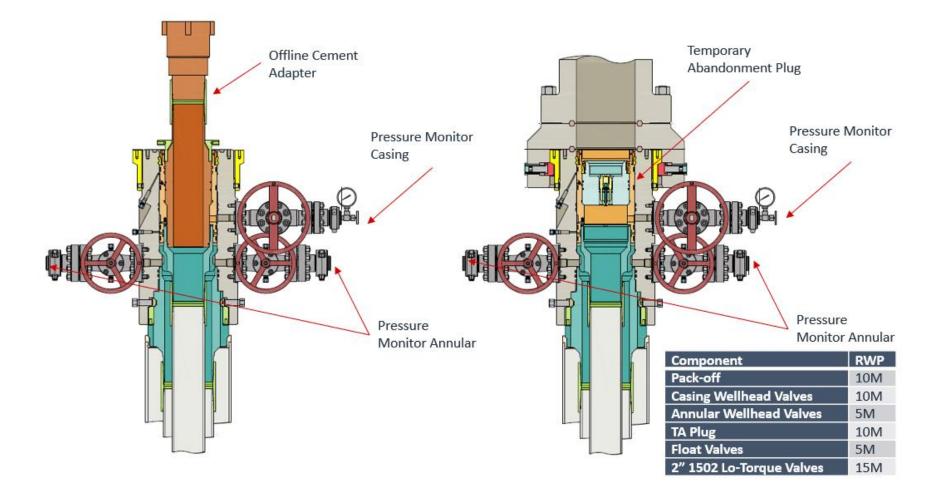
Figure 1: Cameron TA Plug and Offline Adapter Schematic



2/24/2022

Offline Intermediate Cementing Procedure



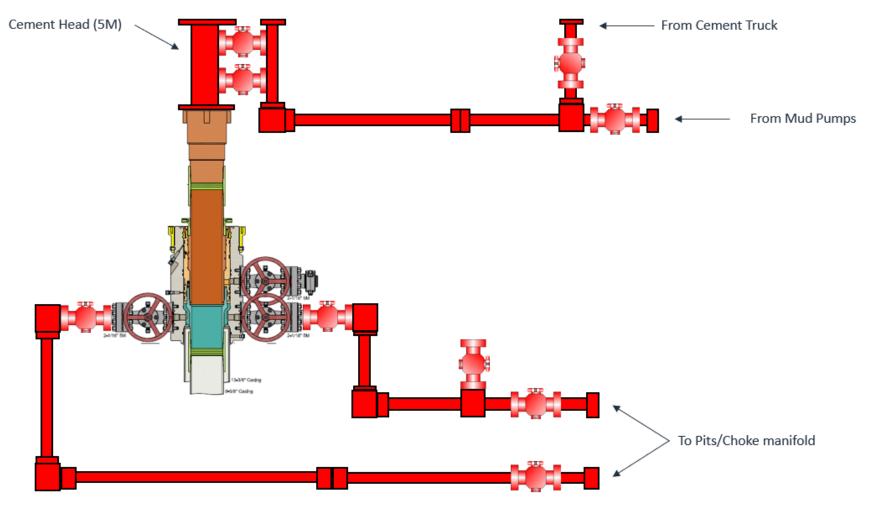


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Seog resources Offline Intermediate Cementing Procedure





*** All Lines 10M rated working pressure

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2/24/2022

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	218957
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By		Condition Date
pkautz	None	7/3/2023

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Action 218957